Product Data Sheet

KIRAVIA Blue 520™ anti-mouse CD11c

Catalog # / Size:	1186815 / 25 µg 1186820 / 100 µg
Clone:	N418
Isotype:	Hamster IgG
Immunogen:	Mouse spleen dendritic cells
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with KIRAVIA Blue 520™ under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2 mg/mL

C57BL/6 mouse splenocytes were stained with I-A/I-E APC and CD11c (clone N418) KIRAVIA Blue 520™ (left) or Armenian Hamster IgG KIRAVIA Blue 520™ isotype control (right).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * KIRAVIA Blue 520™ has an excitation maximum of 495 nm, and a maximum emission of 520 nm.
Application Notes:	Additional reported applications (for the relevant formats) include: immunoprecipitation[3], immunohistochemical staining of acetone-fixed frozen sections[3], and immunofluorescence microscopy[5, 9] (Alexa Fluor® 488 conjugated N418 was used for IHC in frozen sections[10]).

Application References:

1. Granucci F, *et al.* 1997. *J. Immunol.* 159:1794.
2. Stokes RW, *et al.* 1998. *J. Immunol.* 160:5514.
3. Metlay JP, *et al.* 1990. *J. Exp. Med.* 171:1753. (IHC, IP)
4. Ma XT, *et al.* 2006. *Cancer Research* 66:1169.
5. Chin RK, *et al.* 2006. *J. Immunol.* 177:290. (IF)
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7. Turnquist HR, et al. 2007. *J. Immunol.* 178:7018. (FC) PubMed
8. Benson MJ, *et al.* 2007. *J. Exp. Med.* doi:10.1084/jem.20070719. (FC) PubMed
9. You Y, *et al.* 2009. *J. Immunol.* 182:7343. (IF) PubMed
10. Roland CL, *et al.* 2009. *Mol. Cancer Res.* 8:1761. (IHC, FC) PubMed
11. Wikstrom M, *et al.*2006. *J. Immunol.* 177:913. PubMed
12. Pericolini E, *et al.* 2008. *J. Leukocyte Biol.* 83:1286. PubMed
13. Randall LM, *et al.* 2008. *Infect. Immun.*76:3312. PubMed
14. Fahlen-Yrild L, *et al.* 2009. *J. Immunol.* 183:5032. PubMed
15. Osterholzer JJ, *et al.* 2009. *J. Immunol.* 183:8044. PubMed
16. Bankoti J, *et al.* 2010. *Toxicol. Sci.* 115:422. (FC) PubMed
17. Eisenach PA, *et al.* 2010. *J Cell Sci.* 123:4182. PubMed
18. Leppin K, *et al.* 2014. *Invest. Ophthalmol. Vis. Sci.* 55:3603. PubMed
19. Sakai F, *et al.* 2014. *PLoS One.* 9:105370. PubMed
20. Gibbins JD, *et al.* 2014. *Blood.* 124:2953. PubMed
21. White CE, *et al.* 2015. *J Immunol.* 194:697. PubMed
22. Lu X, *et al.* 2015. *J Immunol.* 194:2011. PubMed

Description: CD11c is a 150 kD glycoprotein also known as α_X integrin, CR4, and p150. CD11c forms a $\alpha_X\beta_2$ heterodimer with β_2 integrin (CD18). It is primarily expressed on dendritic cells, NK cells, a subset of intestinal intraepithelial lymphocytes (IEL), and some activated T cells. The $\alpha_X\beta_2$ integrin plays an important role in cell-cell contact by binding its ligands: iC3b, fibrinogen, and CD54.

Antigen References:

1. Barclay A, *et al.* 1997. The Leukocyte Antigen Facts Book Academic Press.
2. Springer TA. 1994. *Cell* 76:301.
3. Lopez-Rodriguez C, *et al.* 1996. *J. Immunol.* 156:3780.